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   Vladimir V. Kisil. **Acta Applicandae Mathematicae.** Dordrecht: Oct 1999. Vol. 59, Iss. 1; p. 79

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2. **Strange But True: Great theory, but you are 30 years too early IDEAS: 1**
   Paul Sieveking. **The Sunday Telegraph.** London (UK): Aug 1, 1999. p. 13

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3. **Double Complexes and Cohomological Hierarchy in a Space of Weakly Invariant Lagrangians of Mechanics**
   O. M. Khudaverdian, D. A. Sahakyan. **Acta Applicandae Mathematicae.** Dordrecht: May 1999. Vol. 56, Iss. 2-3; p. 181

   Article formats: 📄 Article image - PDF   📖 Abstract
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4. **Graded Differential Equations and Dirac Type Operators**
   Lev V. Zilbergleit. **Acta Applicandae Mathematicae.** Dordrecht: May 1999. Vol. 56, Iss. 2-3; p. 301

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5. **Clifford Algebras and Spinors**
   Soloman, Allan. **Contemporary Physics.** London: May 1999. Vol. 40, Iss. 3; p. 223 (1 page)

   Article formats: 📖 Abstract
   ☐ Mark this article

6. **British professor beat Einstein to relativity**
   Steve Farrar. **Sunday Times.** London (UK): Sep 6, 1998. p. 3

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7. **Clifford Alg bras and Spin rs**
Clifton E Corzatt. **Th American Math matical Monthly.** Washington: Aug/Sep 1998. Vol. 105, Iss. 7; p. 691 (1 page)

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8. **"Rational Diameters" and the Discovery of Incommensurability**
Wilbur R Knorr. **The American Mathematical Monthly.** Washington: May 1998. Vol. 105, Iss. 5; p. 421 (9 pages)

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9. **Nonvisible perception of segments of a hand-held object and the attitude spinor**
M T Turvey, Hyeongsaeng Park, Shirley Morgan Dumais, Claudia Carello. **Journal of Motor Behavior.** Washington: Mar 1998. Vol. 30, Iss. 1; p. 3 (17 pages)

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10. **The origin of mathematics**
V Lakshmikantham, A S Vatsala. **Nonlinear Studies.** Abingdon: 1998. Vol. 5, Iss. 2; p. 255 (3 pages)

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11. **Through the looking glass**
Dana Mackenzie. **Sciences.** New York: May/Jun 1997. Vol. 37, Iss. 3; p. 32 (6 pages)

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12. **Relativistic precession**
Hamilton, J Dwayne. **American Journal of Physics.** Woodbury: Sep 1996. Vol. 64, Iss. 9; p. 1197 (1 page)

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13. **Clifford Algebras and the Classical Groups**
Schue, John. **The American Mathematical Monthly.** Washington: Jun 1996. Vol. 103, Iss. 6; p. 519 (15 pages)

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14. **Book revi ws -- Clifford Algebras and their Applicati ns in Mathematical Physics. Deinze, 1993 edited by F. Brackx, R. Delanghe and H. Serras**
Maks, J G. **Cont mporary Physics.** London: Jul 1995. Vol. 36, Iss. 4; p. 281

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15. **Book reviews -- Clifford algebras and Dirac operators in harm nic analysis by J hn E. Gilb rt and Margaret A. M. Murray**
Kunze, Ray A. **Am rican Mathematical Society. Bulletin, New Series, of th American Mathematical Soci ty.** Providence: Oct 1994. Vol. 31, Iss. 2; p. 266

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16. **Telegraphic reviews -- Quadratic Algebras, Clifford Algebras, and Arithmetic Witt Groups by Alexander J. Hahn**
Halverson, Tom. **The American Mathematical Monthly.** Washington: Aug 1994. Vol. 101, Iss. 7; p. 697

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17. **Telegraphic reviews -- Clifford Algebra and Spinor-Valued Functions: A Function Theory for the Dirac Operator (Math. & Its Applic., V. 53) by R. Delanghe, F. Sommen and V. Soucek**
Reese, Margaret L. **The American Mathematical Monthly.** Washington: Aug 1993. Vol. 100, Iss. 7; p. 702

Article formats: ▤ Abstract

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18. **An introduction to geometric algebra with an application in rigid body mechanics**
Vold, Terje G. **American Journal of Physics.** Woodbury: Jun 1993. Vol. 61, Iss. 6; p. 491

Article formats: ▤ Abstract

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19. **Light polarization: A geometric-algebra approach**
Baylis, W E, Bonenfant, J, Derbyshire, J, Huschilt, J. **American Journal of Physics.** Woodbury: Jun 1993. Vol. 61, Iss. 6; p. 534

Article formats: ▤ Abstract

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20. **Telegraphic reviews -- Clifford Algebras and their Applications in Mathematical Physics (Fundamental Theories of Physics, V. 47) edited by A. Micali, R. Boudet and J. Helmstetter**
Ulmer, Milton. **The American Mathematical Monthly.** Washington: Apr 1993. Vol. 100, Iss. 4; p. 424

Article formats: ▤ Abstract

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21. **Physical holonomy, Thomas precession, and Clifford algebra**
Urbantke, H. **American Journal of Physics.** Woodbury: Aug 1990. Vol. 58, Iss. 8; p. 747

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1. **Spacetime physics with geometric algebra**
   David Hestenes. **American Journal of Physics.** Woodbury: Jul 2003. Vol. 71, Iss. 7; p. 691

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2. **Oersted Medal Lecture 2002: Reforming the mathematical language of physics**
   David Hestenes. **American Journal of Physics.** Woodbury: Feb 2003. Vol. 71, Iss. 2; p. 104

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&oo^ ☐ 1. **Some Applications of Clifford Algebra to Geometries**

  Publication: Lecture Notes in Computer Science
  Authors: Hongbo Li
  Publisher: Springer-Verlag Heidelberg
  Recency: Volume 1669/1999
  Relevancy: 8.5%
  Excerpt: This paper focuses on a Clifford algebra model for geometric
  computations in 2D and 3D geometries. The model integrates
  symbolic representation of geometric entities, such ...

☐ 2. **Nonclassical properties and algebraic characteristics of negative binomial
states in quantized radiation fields**

  Publication: The European Physical Journal D - Atomic, Molecular and Optical
  Physics
  Authors: X.-G. Wang, S.-H. Pan, G.-Z. Yang
  Publisher: Springer-Verlag Heidelberg
  Recency: Volume 10, Number 3
  Relevancy: 6.4%
  Excerpt: Abstract: We study the nonclassical properties and algebraic
  characteristics of the negative binomial states introduced by Barnett
  recently. The ladder operator formalism and displacement operator
  formalism of the negative binomial states are found and the

&oo^ ☐ 3. **Pose Estimation Using Geometric Constraints**

  Publication: Lecture Notes in Computer Science
  Authors: Gerald Sommer, Bodo Rosenhahn, Yiwen Zhang
  Publisher: Springer-Verlag Heidelberg
  Recency: Volume 2032/2001
  Relevancy: 6.4%
  Excerpt: The paper concerns 2D-3D pose estimation in the algebraic language
  of kinematics. The pose estimation problem is modeled on the base
  of several geometric constraint equations. In that way the projective
  geometric ...

&oo^ ☐ 4. **Qubit Logic, Algebra and Geometry**

  Publication: Lecture Notes in Computer Science
  Authors: Timothy F. Havel
  Publisher: Springer-Verlag Heidelberg
  Recency: Volume 2061/2001
  Relevancy: 6.4%
  Excerpt: A qubit is a two-state quantum system, in which one bit of binary
  information can be stored and recovered. A qubit differs from an
  ordinary bit in that it can exist in a complex linear combination of its
  two basis states, where combinations differing by a factor are
  identified. This projective ...

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5. Symmetry in Perspective

Publication: Lecture Notes in Computer Science

Authors: Stefan Carlsson

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1406/1998

Relevancy: 5.6%

Excerpt: When a symmetric object in 3D is projected to an image, the symmetry properties are lost except for specific relative viewpoints. For sufficiently complex objects however, it is still possible to infer symmetry in 3D from a single image of an uncalibrated camera. In this paper we give a general ...

6. Principles and Demonstrations of Quantum Information Processing by NMR Spectroscopy

Publication: Applicable Algebra in Engineering, Communication and Computing

Authors: T. F. Havel, S. S. Somaroo, C.-H. Tseng, *et al.*

Publisher: Springer-Verlag Heidelberg

Recency: Volume 10, Numbers 4-5

Relevancy: 5.6%

Excerpt: Abstract. This paper surveys our recent research on quantum information processing by nuclear magnetic resonance (NMR) spectroscopy. We begin with a geometric introduction to the NMR of an ensemble of indistinguishable spins, and then show how this geometric ...

7. Probabilistic Algorithms for Geometric Elimination

Publication: Applicable Algebra in Engineering, Communication and Computing

Authors: Guillermo Matera

Publisher: Springer-Verlag Heidelberg

Recency: Volume 9, Number 6

Relevancy: 4.2%

Excerpt: Abstract. We develop probabilistic algorithms that solve problems of geometric elimination theory using small memory resources. These algorithms are obtained by means of the adaptation of a general transformation due to A. Borodin which converts uniform ...

8. Quantum Hall Effect on the Hyperbolic Plane

Publication: Communications in Mathematical Physics

Authors: A. L. Carey, K. C. Hannabuss, V. Mathai, *et al.*

Publisher: Springer-Verlag Heidelberg

Recency: Volume 190, Number 3

Relevancy: 4.2%

Excerpt: Abstract:In this paper, we study both the continuous model and the discrete model of the Quantum Hall Effect (QHE) on the hyperbolic plane. The Hall conductivity is identified as a geometric invariant associated to an imprimitivity algebra ...

9. Clifford Term Rewriting for Geometric Reasoning in 3D

Publication: Lecture Notes in Computer Science

Authors: Thierry Boy de la Tour, Stéphane Fèvre, Dongming Wang

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1669/1999

Relevancy: 4.2%

Excerpt: Clifford algebra formalism has been used recently in combination with standard term-rewriting techniques for proving many non-trivial geometric theorems. The key issue in this approach consists in verifying whether ...

10. A Web-Based Intelligent System for Geometric Discovery

Publication: Lecture Notes in Computer Science

Authors: Francisco Botana

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2657/2003

Relevancy: 4.2%

Excerpt: An open web-based tool for automatic discovery in elementary Euclidean geometry, webDiscovery, is described. It is based in recent findings in automatic discovery in geometry. A user-defined geometric construction is uploaded to a Java Servlet server, where two ...

11. Computing the Intrinsic Camera Parameters Using Pascal's Theorem

Publication: Lecture Notes in Computer Science

Authors: Bodo Rosenhahn, Eduardo Bayro-Corrochano

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1689/1999

Relevancy: 3.7%

Excerpt: The authors of this paper adopted the characteristics of the image of the absolute conic in terms of Pascal's theorem to propose a new camera calibration method. Employing this theorem in the geometric algebra framework ...

12. Cyclic cohomology and the family Lefschetz theorem

Publication: Mathematische Annalen

Authors: Moulay-Tahar Benameur

Publisher: Springer-Verlag Heidelberg

Recency: Volume 323, Number 1

Relevancy: 3.7%

Excerpt: Any closed current on the base of a compact fibration gives rise to a cyclic cocycle on the smooth convolution algebra. We prove that such cocycle furnishes additive maps from the vertically equivariant *K*-theory to the scalars. This enables to associate ...

13. Submodular Functions, Matroids, and Certain Polyhedra

Publication: Lecture Notes in Computer Science

Authors: Jack Edmonds

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2570/2003

Relevancy: 3.7%

Excerpt: The viewpoint of the subject of matroids, and related areas of lattice theory, has always been, in one way or another, abstraction of algebraic dependence or, equivalently, abstraction of the incidence relations in geometric ...

14. Datagraphs in Algebraic Geometry and K3 Surfaces

Publication: Lecture Notes in Computer Science

Authors: Gavin Brown

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2630/2003

Relevancy: 3.7%

Excerpt: Datagraphs are combinatorial graphs having database items at their vertices and geometric relationships along their edges. I describe their applicability to lists of examples in algebraic geometry generated ...

15. **A Generative Theory of Shape**

Publication: Lecture Notes in Computer Science

Authors: Michael Leyton

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2145/2001

Relevancy: 3.7%

Excerpt: 7. Algebraic Theory of Inheritance 7.1 Inheritance 7.2 Geometric Inheritance 7.3 Theory of Inheritance 7.4 Relating Inheritance Diagrams to Algebra 7.5 Class ...

16. **Real-Time Tracking of Multiple Articulated Structures in Multiple Views**

Publication: Lecture Notes in Computer Science

Authors: Tom Drummond, Roberto Cipolla

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1843/2000

Relevancy: 3.7%

Excerpt: This paper describes a highly flexible approach to real-time frame-rate tracking in complex camera and structures configurations, including the use of multiple cameras and the tracking of multiple or articulated targets. A powerful and general method is presented for expressing and solving the constraints ...

17. **Homological Perturbation Theory and Mirror Symmetry**

Publication: Acta Mathematica Sinica

Authors: Jian Zhou

Publisher: Springer-Verlag Heidelberg

Recency: Volume 19, Number 4

Relevancy: 3.7%

Excerpt: We explain how deformation theories of geometric objects such as complex structures, Poisson structures and holomorphic bundle structures lead to differential Gerstenhaber or Poisson algebras. We use homological ...

18. **Dynamical Method in Algebra: A Survey (Abstract)**

Publication: Lecture Notes in Computer Science

Authors: Thierry Coquand

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2796/2003

Relevancy: 3.7%

Excerpt: The system D5, of J. Della Dora, C. Dicrescenzo, and D. Duval, allows computations in the algebraic closure of a field, though it is known that such a closure may fail to exist constructively. This mystery has been recently analysed in the work of Coste-Lombardi-Roy. ...

19. **Remarks on Geometric Theorem Proving**

Publication: Lecture Notes in Computer Science

Authors: Laura Bazzotti, Giorgio Dalzotto, Lorenzo Robbiano

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2061/2001

Relevancy: 3.7%

Excerpt: The mathematical literature related to automatic methods for proving theorems in Euclidean geometry is immense. However, it is the opinion of the authors that the theory behind this topic would profit from more algebraic tools and more methods from commutative ...

☐ 20. **Two-row nilpotent orbits of cyclic quivers**

    Publication: Mathematische Zeitschrift

    Authors: A. Henderson

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 243, Number 1

    Relevancy: 3.7%

    Excerpt: Abstract. We prove that the local intersection cohomology of nilpotent orbit closures of cyclic quivers is trivial when the two orbits involved correspond to partitions with at most two rows. This gives a geometric proof of a result of Graham and Lehrer, which ...

☐ 21. **Chain spaces with many reflections**

    Publication: Journal of Geometry

    Authors: Andrea Blunck

    Publisher: Birkhäuser Verlag AG

    Recency: Volume 72, Numbers 1-2

    Relevancy: 3.7%

    Excerpt: Abstract.We consider chain spaces that possess a group of automorphisms containing many reflections. Such a chain space can be coordinatized by a commutative algebra, if the group satisfies a 3-reflection theorem, or if the chain space has additional ...

☐ 22. **Invariant symmetric bilinear forms for reflection groups**

    Publication: Journal of Geometry

    Authors: Bettina Kürner, Karl-Hermann Neeb

    Publisher: Birkhäuser Verlag AG

    Recency: Volume 71, Numbers 1-2

    Relevancy: 3.7%

    Excerpt: Abstract. In this paper we describe a connection between Vinberg's criterion for the existence of an invariant symmetric bilinear form for a geometric representation of a Coxeter groups and other criteria which are formulated in terms of conjugation ...

☐ 23. **Chain spaces with many reflections**

    Publication: Journal of Geometry

    Authors: Andrea Blunck

    Publisher: Birkhäuser Verlag AG

    Recency: Volume 72, Numbers 1-2

    Relevancy: 3.7%

    Excerpt: Abstract.We consider chain spaces that possess a group of automorphisms containing many reflections. Such a chain space can be coordinatized by a commutative algebra, if the group satisfies a 3-reflection theorem, or if the chain space has additional ...

☐ 24. **Invariant symmetric bilinear forms for reflection groups**

    Publication: Journal of Geometry

    Authors: Bettina Kürner, Karl-Hermann Neeb

    Publisher: Birkhäuser Verlag AG

Recency: Volume 71, Numbers 1-2

Relevancy: 3.7%

Excerpt: Abstract. In this paper we describe a connection between Vinberg's criterion for the existence of an invariant symmetric bilinear form for a geometric representation of a Coxeter groups and other criteria which are formulated in terms of conjugation invariant ...

25. **Homogeneous nilmanifolds attached to representations of compact Lie groups**

Publication: manuscripta mathematica

Authors: Jorge Lauret

Publisher: Springer-Verlag Heidelberg

Recency: Volume 99, Number 3

Relevancy: 3.7%

Excerpt: Abstract:For each compact Lie algebra ‹ and each real representation v of ‹ we consider a two-step nilpotent Lie group N(‹,V), ...

26. **Locally finite Lie algebras¶with unitary highest weight representations**

Publication: manuscripta mathematica

Authors: Karl-Hermann Neeb

Publisher: Springer-Verlag Heidelberg

Recency: Volume 104, Number 3

Relevancy: 3.7%

Excerpt: Abstract: In this paper we essentially classify all locally finite Lie algebras with an involution and a compatible root decomposition which permit a faithful unitary highest weight representation. It turns out that these Lie algebras ...

27. **Fixed points of conformal compressions of symmetric cones**

Publication: Mathematische Annalen

Authors: Yongdo Lim

Publisher: Springer-Verlag Heidelberg

Recency: Volume 321, Number 3

Relevancy: 3.7%

Excerpt: Abstract. Let V be a Euclidean Jordan algebra and let Ω be the associated symmetric cone. In this paper, by the contraction property of conformal compressions of the symmetric cone Ω for ...

28. **Quasi-measures with finitely or countably many¶extreme extensions**

Publication: manuscripta mathematica

Authors: Z. Lipecki

Publisher: Springer-Verlag Heidelberg

Recency: Volume 97, Number 4

Relevancy: 3.7%

Excerpt: Abstract:We give a geometric description of the sets E(w) of all quasi-measure extensions of a quasi-measure w defined on an algebra ...

29. **Applications of geometric means on symmetric cones**

Publication: Mathematische Annalen

Authors: Yongdo Lim

Publisher: Springer-Verlag Heidelberg

Recency: Volume 319, Number 3

Relevancy: 3.2%

Excerpt: Abstract. Let v be a Euclidean Jordan algebra, and let Ω be the corresponding symmetric cone. The geometric mean $a\#b$ of two elements a and b ...

30. **Geometric means on symmetric cones**

Publication: Archiv der Mathematik

Authors: Y. Lim

Publisher: Birkhäuser Verlag AG

Recency: Volume 75, Number 1

Relevancy: 3.2%

Excerpt: Abstract. Let Ω be the interior of the cone of all square elements of a Euclidean Jordan algebra v, and let $x\rightarrow P(x)$ be the quadratic representation of v. Then P ...

31. **Proving Geometric Theorems Using Clifford Algebra and Rewrite Rules**

Publication: Lecture Notes in Computer Science

Authors: Stéphane Fèvre, Dongming Wang

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1421/1998

Relevancy: 3.2%

Excerpt: We consider geometric theorems that can be stated constructively by introducing points, while each newly introduced point may be represented in terms of the previously constructed points using Clifford algebraic ...

32. **Exact solutions and geometric phase factor of time-dependent three-generator quantum systems**

Publication: The European Physical Journal D - Atomic, Molecular and Optical Physics

Authors: J.-Q. Shen, H.-Y. Zhu, P. Chen

Publisher: Springer-Verlag Heidelberg

Recency: Volume 23, Number 2

Relevancy: 3.2%

Excerpt: Abstract: There exist a number of typical and interesting systems and/or models, which possess three-generator Lie-algebraic structure, in atomic physics, quantum optics, nuclear physics and laser physics. The well-known fact that all simple 3-generator

33. **Milnor K-theory of rings, higher Chow groups and applications**

Publication: Inventiones Mathematicae

Authors: Philippe Elbaz-Vincent, Stefan Müller-Stach

Publisher: Springer-Verlag Heidelberg

Recency: Volume 148, Number 1

Relevancy: 3.2%

Excerpt: Abstract. If R is a smooth semi-local algebra of geometric type over an infinite field, we prove that the Milnor K-group $K^M_n(R)$ surjects onto the higher ...

34. **Geometric Integration Algorithms on Homogeneous Manifolds**

Publication: Foundations of Computational Mathematics

Authors: Debra Lewis, Peter J. Olver

Publisher: Springer-Verlag New York

Recency: Volume 2, Number 4

Relevancy: 3.2%

Excerpt: Abstract. Given an ordinary differential equation on a homogeneous manifold, one can construct a ``geometric integrator" by determining a compatible ordinary differential equation on the associated Lie group, using a Lie group integration scheme to construct ...

☐ 35. **Lie Superalgebras Based on ???? $_n$ Associated to the Adjoint Representation, and Invariant Geometric Structures Defined on Them**

    Publication: Communications in Mathematical Physics

    Authors: G. Salgado, O.A. Sánchez-Valenzuela

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 241, Numbers 2-3

    Relevancy: 3.2%

    Excerpt: Finite-dimensional real and complex Lie superalgebras whose underlying Lie algebra is ???? $_n$ and whose odd module is ???? $_n$ itself under the adjoint representation are classified up to isomorphism. ...

👓 ☐ 36. **Plane + Parallax, Tensors, and Factorization**

    Publication: Lecture Notes in Computer Science

    Authors: Bill Triggs

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 1842/2000

    Relevancy: 2.8%

    Excerpt: We study the special form that the general multi-image tensor formalism takes under the plane + parallax decomposition, including matching tensors and constraints, closure and depth recovery relations, and inter-tensor consistency constraints. Plane + parallax alignment greatly simplifies the

👓 ☐ 37. **Pose Estimation of Free-Form Surface Models**

    Publication: Lecture Notes in Computer Science

    Authors: Bodo Rosenhahn, Christian Perwass, Gerald Sommer

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 2781/2003

    Relevancy: 2.8%

    Excerpt: In this article we discuss the 2D-3D pose estimation problem of 3D free-form surface models. In our scenario we observe free-form surface models in an image of a calibrated camera. Pose estimation means to estimate the relative position and orientation of the 3D object to the reference camera system. ...

☐ 38. **The fixed poles of the disturbance decoupling problem and almost stability subspace ?1 $^?$ $_{b,g}($ ker$($ C$))$**

    Publication: Numerische Mathematik

    Authors: Delin Chu

    Publisher: Springer-Verlag Heidelberg

    Recency: Online First

    Relevancy: 2.8%

    Excerpt: Summary. This paper is concerned with the fixed poles of the disturbance decoupling problem for linear time-invariant systems by state feedback and measurement feedback. Algebraic characterizations for these fixed poles are given using the reducing subspace technique ...

👓 ☐ 39. **Symplectic Methods for Separable Hamiltonian Systems**

    Publication: Lecture Notes in Computer Science

    Authors: M. Sofroniou, G. Spaletta

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2331/2002

Relevancy: 2.8%

Excerpt: This paper focuses on the solution of separable Hamiltonian systems using explicit symplectic integration methods. Strategies for reducing the effect of cumulative rounding errors are outlined and advantages over a standard formulation are demonstrated. Procedures for automatically choosing appropriate ...

40. **Solving Orthogonal Matrix Differential Systems in Mathematica**

Publication: Lecture Notes in Computer Science

Authors: M. Sofroniou, G. Spaletta

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2331/2002

Relevancy: 2.8%

Excerpt: A component of a new environment for the numerical solution of ordinary differential equations in Mathematica is outlined. We briefly describe how special purpose integration methods can be constructed to solve structured dynamical systems. In particular we focus on the solution of orthogonal ...

41. **Semi-metric Formal 3D Reconstruction from Perspective Sketches**

Publication: Lecture Notes in Computer Science

Authors: A. Sosnov, P. Macé, G. Hégron

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2330/2002

Relevancy: 2.8%

Excerpt: We present a new approach for accurate and fast reconstruction of 3D models from hand-drawn perspective sketches and imposed geometric constraints. A distinctive feature of the approach is the decomposition of the reconstruction process into the ...

42. **VII. The conformal Lie algebra**

Publication: Lecture Notes in Mathematics

Authors: Wolfgang Bertram

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1754/2000

Relevancy: 2.8%

Excerpt: 1. Euler operators and conformal Lie algebra 1.1. The twisted complex and twisted polarized case 1.2. The Euler operator of a symmetric space with twist 2. The Kantor-Koecher-Tits construction 2.1. Jordan coordinates and the local Harish-Chandra imbedding ...

43. **V. Non-degenerate spaces**

Publication: Lecture Notes in Mathematics

Authors: Wolfgang Bertram

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1754/2000

Relevancy: 2.8%

Excerpt: 1. Pseudo-Riemannian symmetric spaces 1.1. Invariant pseudo-metrics 1.2. Semisimple symmetric spaces 1.3. Simple symmetric spaces 1.4. Behavior of the standard-imbedding 1.5. The algebra $\mathrm{End}(\{\frak q\})^{\{\frak h\}}$ ...

44. **Automated Theorem Proving in Incidence Geometry - A Bracket Algebra Based Elimination Method**

Publication: Lecture Notes in Computer Science

Authors: Hongbo Li, Yihong Wu

Publisher: Springer-Verlag Heidelberg

Recency: Volume 2061/2001

Relevancy: 2.8%

Excerpt: In this paper we propose a bracket algebra based elimination method for automated generation of readable proofs for theorems in incidence geometry. This method features three techniques, the first being heuristic automated reordering of geometric ...

45. **An Application of Automatic Theorem Proving in Computer Vision**

Publication: Lecture Notes in Computer Science

Authors: Didier Bondyfalat, Bernard Mourrain, Théodore Papadopoulo

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1669/1999

Relevancy: 2.8%

Excerpt: Getting accurate construction of tridimensional CAD models is a field of great importance: with the increasing complexity of the models that modeling tools can manage nowadays, it becomes more and more necessary to construct geometrically accurate descriptions. ...

46. **Geometrical Meaning of R-Matrix Action for Quantum Groups at Roots of 1**

Publication: Communications in Mathematical Physics

Authors: Fabio Gavarini

Publisher: Springer-Verlag Heidelberg

Recency: Volume 184, Number 1

Relevancy: 2.8%

Excerpt: Abstract: The present work splits in two parts: first, we perform a straightforward generalization of results from [Re], proving that quantum groups $\uqMg$ and their unrestricted specializations at roots of 1, in particular the function algebra ...

47. **Homology stability for classical regular semisimple varieties**

Publication: Mathematische Zeitschrift

Authors: G.I. Lehrer, G.B. Segal

Publisher: Springer-Verlag Heidelberg

Recency: Volume 236, Number 2

Relevancy: 2.8%

Excerpt: Abstract. We use techniques from homotopy theory, in particular the connection between configuration spaces and iterated loop spaces, to give geometric explanations of stability results for the cohomology of the varieties of regular semisimple elements in the ...

48. **A linear algebra approach to non-transitive expected utility**

Publication: Social Choice and Welfare

Authors: Matjazˇ Omladič, Vesna Omladič

Publisher: Springer-Verlag Heidelberg

Recency: Volume 18, Number 2

Relevancy: 2.8%

Excerpt: Abstract. The purpose of this paper is twofold. One of the aims is to give a view of P. C. Fishburn's non-transitive expected utility through geometric linear algebra. The other is to give an application of these ideas to ...

49. **A Functional-Analytic Theory of Vertex (Operator) Algebras, I**

Publication: Communications in Mathematical Physics

Authors: Yi-Zhi Huang

Publisher: Springer-Verlag Heidelberg

Recency: Volume 204, Number 1

Relevancy: 2.8%

Excerpt: Abstract:This paper is the first in a series of papers developing a functional-analytic theory of vertex (operator) algebras and their representations. For an arbitrary Ê-graded finitely-generated vertex algebra ...

50. **Idempotents in a complex group algebra, projective modules, and the von Neumann algebra**

Publication: Archiv der Mathematik

Authors: B. Eckmann

Publisher: Birkhäuser Verlag AG

Recency: Volume 76, Number 4

Relevancy: 2.8%

Excerpt: Abstract. The complex group algebra $\{\Bbb C\}G$ of a countable group G can be imbedded in the von Neumann algebra NG of G. If G is torsion-free, ...
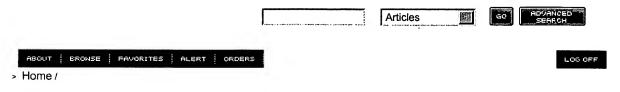
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☐ 51. **The Symplectic Evans Matrix,¶and the Instability of Solitary Waves and Fronts**

    Publication: Archive for Rational Mechanics and Analysis

    Authors: Thomas J. Bridges, Gianne Derks

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 156, Number 1

    Relevancy: 2.5%

    Excerpt: Abstract: Hamiltonian evolution equations which are equivariant with respect to the action of a Lie group are models for physical phenomena such as oceanographic flows, optical fibres and atmospheric flows, and such systems often have a wide variety of solitary-wave or front solutions. In this paper, ...

☐ 52. **Numerical exterior algebra and the compound matrix method**

    Publication: Numerische Mathematik

    Authors: Leanne Allen, Thomas J. Bridges

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 92, Number 2

    Relevancy: 2.2%

    Excerpt: Summary. The compound matrix method, which was first proposed for numerically integrating systems of differential equations in hydrodynamic stability on k=2,3 dimensional subspaces of ${\mathbb C}^n$, by using compound matrices as coordinates, is reformulated in a coordinate-free ...

☐ 53. **It Is on the Boundary: Complexity Considerations for Polynomial Ideals**

    Publication: Lecture Notes in Computer Science

    Authors: Ernst W. Mayr

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 1872/2000

    Relevancy: 2.2%

    Excerpt: Systems of (in general non-linear but) polynomial equations over some ring or field R occur in numerous situations when dealing with problems in modelling, simulation, geometric representation and analysis, deduction, symbolic algebra, ...

☐ 54. **The Oscillator Representation and¶Groups of Heisenberg Type**

    Publication: Communications in Mathematical Physics

    Authors: E. Galina, A. Kaplan, F. Levstein

    Publisher: Springer-Verlag Heidelberg

    Recency: Volume 210, Number 2

    Relevancy: 2.2%

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Excerpt: Abstract:We obtain the explicit reduction of the Oscillator representation of the symplectic group, on the subgroups of automorphisms of certain vector-valued skew forms | of "Clifford type"-equivalently, of automorphisms of Lie algebras ...

55. **Quiver varieties and tensor products**

Publication: Inventiones Mathematicae

Authors: Hiraku Nakajima

Publisher: Springer-Verlag Heidelberg

Recency: Volume 146, Number 2

Relevancy: 2.2%

Excerpt: Abstract. In this article, we give geometric constructions of tensor products in various categories using quiver varieties. More precisely, we introduce a lagrangian subvariety &'tilde; in a quiver variety, and show the ...

56. **The cobar construction as a Hopf algebra**

Publication: Inventiones Mathematicae

Authors: Hans-Joachim Baues

Publisher: Springer-Verlag Heidelberg

Recency: Volume 132, Number 3

Relevancy: 1.6%

Excerpt: Abstract. We show that the integral cobar construction zc-x of a 1-reduced simplicial set x has the structure of a homotopy Hopf algebra. This leads to a rational differential ...

57. **Numerical Analysis Methods**

Publication: Lecture Notes in Computer Science

Authors: William J. Stewart

Publisher: Springer-Verlag Heidelberg

Recency: Volume 1769/2000

Relevancy: 1.4%

Excerpt: In the context of Performance Evaluation (PE), numerical analysis methods referto those methods which work with a Markov chain representation of the systemunder evaluation and use techniques from the domain of numerical analysis tocompute stationary and/or transient state probabilities or ...

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